

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 355 (Wisconsin Avenue) and MD 410 (East-West Hwy) in Montgomery County. A new pedestrian crossing shall be provided across MD 355. MD 355 (Wisconsin Avenue) is assumed to run on a north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA three-phase, pre-timed mode, with the northbound MD 355 approach continuing to run as a lead left followed by both approaches of MD 355 running concurrently. The pedestrian phase across the north leg of MD 355 (Wisconsin Avenue) shall remain in operation. A new pedestrian phase across the central part of the intersection shall be provided. The pedestrian phases across MD 410 (East-West Hwy) shall remain in operation at this intersection. The MD 410 (East-West Hwy) approach shall continue to operate independently.
- A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be maintained at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- Contact Mr. Bob Gonzales at (240) 777-8761 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
8087	R10-4(1) Pedestrian education sign, (9" x 12") pole mounted.	2 Each
8106	14' breakaway pedestal pole with transformer base.	1 Each
8124	12", one-way, two-section (DW,W) symbolic pedestrian signal head with adjustable bracket for pole mounting and outaway visors.	1 Each
8124	12", one-way, two-section (DW,W) symbolic pedestrian signal head having proper post top adapter for pedestal mounting and outaway visors.	1 Each

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	QUANTITY
2001	Class 2 Excavation.	2 C.Y.
2002	Test pit excavation.	1 C.Y.
5012	Standard Type A curb, 8" x 17".	65 L.F.
5016	4" concrete sidewalk, mix No. 2.	195 S.F.
5019	Remove existing pavement.	34 S.Y.
5020	Remove curb and gutter.	20 L.F.
5021	Remove curb.	60 L.F.
5022	Remove sidewalk.	250 S.F.
8001	Concrete foundation.	1 C.Y.
8023	3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).	20 L.F.
8043	Ground rod, 3/4" diameter x 10' length with clamp.	1 Each
8065	3-conductor electrical cable (No. 14 A.W.G.).	560 L.F.
8075	1-conductor electrical cable (No. 6 A.W.G.) stranded bare copper ground wire.	140 L.F.
Neg.	Furnish and install depressed curb & gutter.	20 L.F.
Neg.	Furnish and install depressed curb.	50 L.F.
Neg.	Sawcut for roadway surface.	50 L.F.
Neg.	Furnish and install depressed sidewalk (ornamental brick).	75 S.F.
Neg.	Macadam patch for roadway (MD 355)	LUMP SUM
Neg.	4" concrete sidewalk, mix No. 2, for handicapped ramp.	220 S.F.
Neg.	12" white heat applied permanent preformed thermoplastic pavement marking	475 L.F.

SEQUENCE OF OPERATION SHEET

MD 355
RUNS IN AN
NORTH-SOUTH
DIRECTION

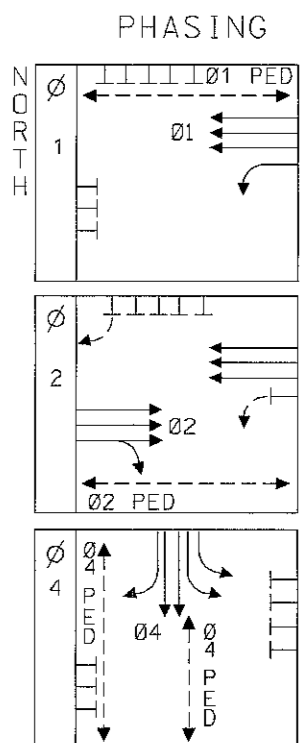
TRAFFIC OPERATIONS SECTION
DIVISION OF TRAFFIC ENGINEERING
MONTGOMERY COUNTY, MARYLAND

MD 355 (WISCONSIN AVENUE) AND
MD 410 (EAST-WEST HWY)

INTERSECTION:

SIGNAL NO.	SIGNAL HEAD INDICATIONS					
	3,7,8	4,5,6	9,10	1,2		11-18
TOTAL:	3	3	2	2		8
LEGEND	(R)	(R)	(R)	(R)		
OPTICALLY LIMITED	(Y)	(Y)	(Y)	(Y)		
R RED	(G)	(G)	(G)	(G)		
Y YELLOW						
G GREEN						
ARROW						
FLASHING						

NO.

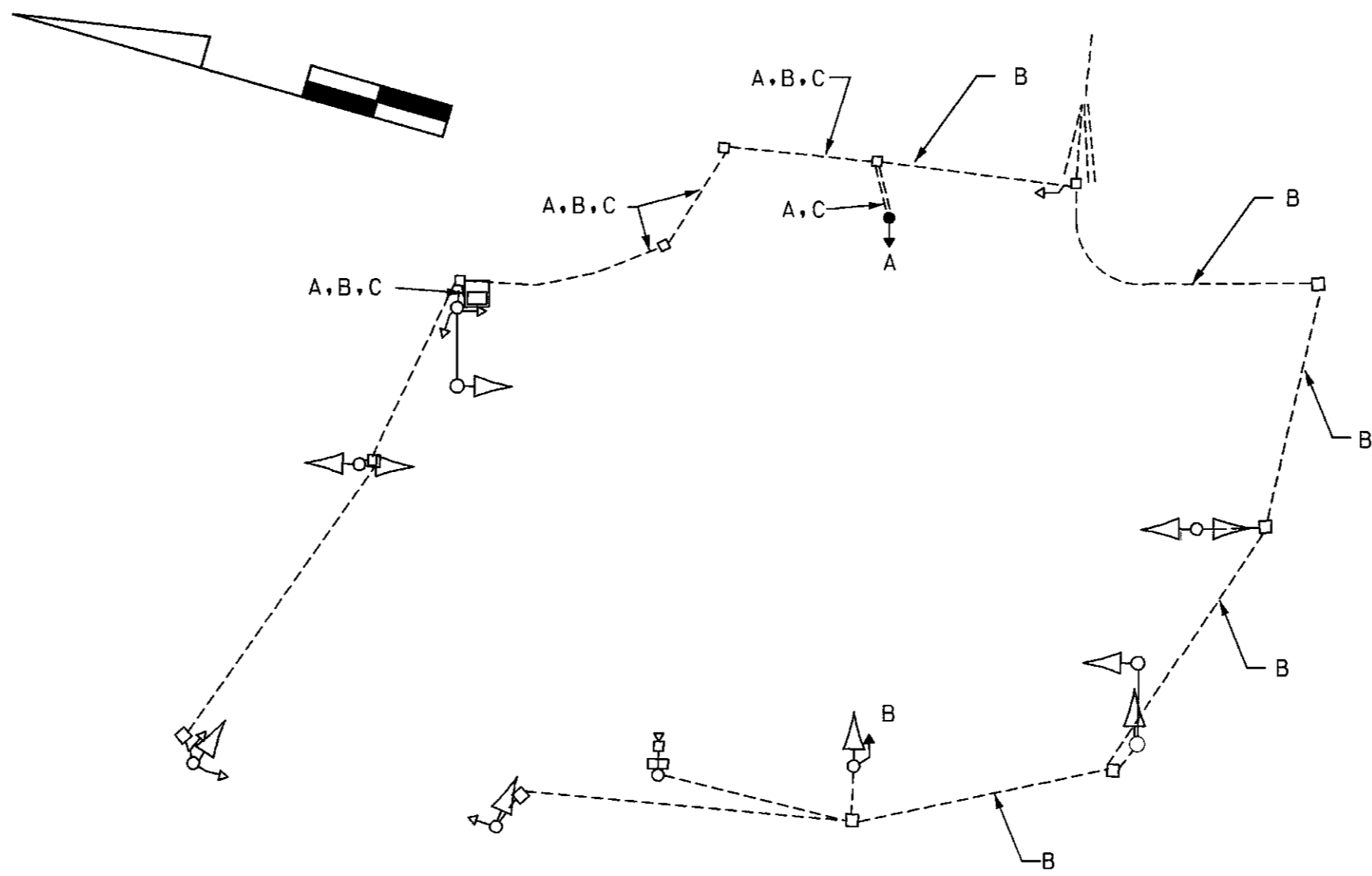


SIGNAL NO.	SEQUENCE OF OPERATION													FLASH
	1	2	3	4	5	6	7	8	9	10	11	12	13	
1	G	G	G	G	G	Y	R	R	R	R	R	R	R	Y
2	G	G	G	G	G	Y	R	R	R	R	R	R	R	Y
3	G	G	G	G	G	Y	R	R	R	R	R	R	R	Y
4	R	R	R	R	R	Y	R	R	R	R	R	R	R	Y
5	R	R	R	R	R	Y	R	R	R	R	R	R	R	Y
6	R	R	R	R	R	Y	R	R	R	R	R	R	R	Y
7	R	R	R	R	R	Y	R	R	R	R	R	R	R	Y
8	R	R	R	R	R	Y	R	R	R	R	R	R	R	Y
9	R	R	R	R	R	Y	R	R	R	R	R	R	R	Y
10	R	R	R	R	R	Y	R	R	R	R	R	R	R	Y
11	DW	DW	DW	DW	WK	FL	DW	DW	DW	DW	DW	DW	DW	DARK
12	WK	FL	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
13	WK	FL	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
14	DW	DW	DW	DW	WK	FL	DW	DW	DW	DW	DW	DW	DW	DARK
15	DW	DW	DW	DW	DW	DW	DW	DW	WK	FL	DW	DW	DW	DARK
16	DW	DW	DW	DW	DW	DW	DW	DW	WK	FL	DW	DW	DW	DARK
17	DW	DW	DW	DW	DW	DW	DW	DW	WK	FL	DW	DW	DW	DARK
18	DW	DW	DW	DW	DW	DW	DW	DW	WK	FL	DW	DW	DW	DARK
PHASE	1	ALL RED	2	ALL RED	4	ALL RED								

NOTES:

SUBMITTED:	CHECKED:	APPROVED:
IN SERVICE BY:	DATE:	TIME:

WIRING DIAGRAM



The contact persons for District #3 are as follows:

Mr. Majid Shakib
Assistant District Engineer - Traffic
Phone: (301) 513-7358

Mr. Randy Brown
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Augie Rebish
Assistant District Engineer - Utility
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

WIRING KEY

- A } 3-CONDUCTOR ELECTRICAL
B } CABLE (NO. 14 A.W.G.)
- C - STRANDED BARE COPPER GROUND
WIRE (NO. 6 A.W.G.)
- G - GROUND ROD



Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 355 (WISCONSIN AVENUE)
AT MD 410 (EAST-WEST HWY)

DRAWN BY: Rob Cicchini	F.A.P. NO.	TS NO.
CHECKED BY:	S.H.A. NO.	TS
SCALE: None	COUNTY: MONTGOMERY	T.I.M.S. NO. F297
DATE: 8/23/02	LOG MILE:	SHEET NO. 2 OF 2